

I CLAIM:

1. An improved lumber positioning device on a carpentry cutting bench comprising:

5 a rectangular board having a plurality of oblique cutting grooves radically formed in central surface, a pair of parallel transverse guide grooves beside said oblique cutting grooves, said guide grooves each having a rack on an inner wall and a protrudent bar on bottom, and four screw holes in horseshoe shaped grooves spacedly form at two ends for fixing said board
10 on a table of a cutting bench by screws;

a pair of first and second rip fences respectively secured to lateral edges of said rectangular board by screws with the second rip fence slightly lower then bottom of said board for enabling a lower position of the second rip fence leaning
15 on an edge of said table or engaged within a longitudinal groove of said table, said rip fences each having a plurality of oblique vertical slots corresponding with each other and respectively communicating with outer ends of said oblique cutting grooves;

20 a pair of positioning plates engaged on the protrudent bars within the guide grooves of said rectangular board and slidably secured by a pair of rectangular plates under said protrudent bars, said positioning plates having four projection on four upper corners, a vertical through hole in
25 center, a pair of horizontal recesses in opposing lateral sides

and a pair of indentations in opposing bottom edges;

a pair of symmetrical expanding plates respectively disposed within the horizontal recesses of said positioning plate and bound by a pair of elastic rings and each having a serrated outer edge engageable with the rack of said guide grooves and a semi-circular inner edge able to combined a circular hole engaged with the vertical through hole of said positioning plates;

a pair of positioning rods each having a lateral handle on top and an elliptic protrusion with an oblique distal portion eccentrically integrated with lower end engaged within the vertical through hole of said positioning plates and the circular hole of said symmetrical expanding plates;

whereby, slide said positioning plate freely toward a cutting lumber positioned on said board and leaned on a rip fence and rotate said positioning rod for 180° until said positioning plate tightly engaged with said cutting lumber so that said positioning plate is fixed and the cutting lumber is exactly gripped therebetween, then a hacksaw is adopted to cut the cutting lumber.

2. The improved lumber positioning device as recited in claim 1, wherein said symmetrical expanding plates is expanded outward and its serrated outer edge engages with the rack of said guide groove when said positioning rod is rotated.